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(54) FLUORINE-CONTAINING COMPOUND, OPTICAL THIN FILM AND ANTIREFLECTIVE ARTICLE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound useful as a raw material for optical thin films having low reflectivity and excellent abrasion resistance and for antireflective articles using the optical thin films.

SOLUTION: A compound of the formula: $\text{CH}_2=\text{CH}-\text{O}-(\text{CH}_2)_a-\text{O}-(\text{CH}_2)_b-\text{Rf}-(\text{CH}_2)_b-\text{O}-(\text{CH}_2)_a-\text{O}-\text{CH}=\text{CH}_2$ [Rf is a fluorine-containing alkyl; (a) is 1-2; (b) is 0-3], e.g. $\text{CH}_2=\text{CH}-\text{O}-(\text{CH}_2)_2-\text{O}-\text{CH}_2-(\text{CF}_2)_8-\text{CH}_2-\text{O}-(\text{CH}_2)_2-\text{O}-\text{CH}=\text{CH}_2$. The compound of the formula: $\text{CH}_2=\text{CH}-\text{O}-(\text{CH}_2)_a-\text{O}-(\text{CH}_2)_b-\text{Rf}-(\text{CH}_2)_b-\text{O}-(\text{CH}_2)_a-\text{O}-\text{CH}=\text{CH}_2$ is obtained by allowing a fluorine-containing dialcohol compound to react with a vinyl ether having a halogen in the presence of an alkali catalyst.

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